



EL	ATG	AGC	AAC	TCC	GTT	CCT	CTG	CTC	TGT	TTC	TGG	AGC	CTC	TGC	TAT	TGC	TTT	GCT	GCG	GGG	AGC	CCC	GTA
LPL	M	S	N	S	V	P	L	L	C	F	W	S	L	C	Y	C	F	A	A	G	S	P	V
HL	M	E	S	K	A	L	L	V	-	-	-	-	-	-	-	-	-	-	L	T	L	A	V
PPL	M	D	T	S	P	-	-	L	C	F	S	I	L	L	V	L	C	I	F	I	Q	S	S
	M	L	P	L	W	T	L	S	L	L	L	G	A	V	A	G	K	E	V	C	Y	E	R
EL	CCT	TTT	GGT	CCA	GAG	GGA	CGG	CTG	GAA	GAT	AAG	CTC	CAC	AAA	CCC	AAA	GCT	ACA	CAG	ACT	GAG	GTC	
LPL	P	F	L	Q	P	E	R	L	E	D	K	L	H	K	P	K	A	T	Q	T	E	V	27
HL	W	L	S	L	T	A	S	S	R	G	G	V	A	A	A	D	Q	R	R	D	F	I	8
PPL	A	L	G	Q	S	L	K	P	E	P	F	G	R	R	A	Q	A	V	E	T	N	K	21
	L	G	C	F	S	D	D	S	P	W	S	G	I	T	E	R	P	L	H	I	L	P	29
EL	AAA	CCA	TCT	GTG	AGG	TTT	AAC	CTC	CGC	ACC	TCC	AAG	GAC	CCA	GAG	CAT	GAA	GGA	TGC	TAC	CTC	TCC	GTC
LPL	K	P	S	V	R	F	N	L	R	T	S	K	D	P	E	H	E	G	C	Y	L	S	V
HL	D	I	E	S	K	F	A	L	R	L	P	E	D	T	A	E	D	T	C	H	L	I	P
PPL	T	L	H	E	M	K	T	R	F	L	L	F	G	E	T	N	Q	G	Q	I	R	I	E
	W	S	P	K	D	V	N	T	R	F	L	L	Y	T	N	E	N	P	N	N	F	Q	E
EL	GGC	CAC	AGC	CAG	CCC	TTA	GAA	GAC	TGC	AGT	TTC	AAC	ATG	ACA	GCT	AAA	ACC	TTT	-	-	-	-	70
LPL	G	H	S	Q	P	L	E	D	C	S	F	N	M	H	A	K	T	F	-	-	-	I	51
HL	G	V	A	E	S	V	A	T	C	H	F	N	S	S	S	P	L	E	M	-	-	V	64
PPL	N	H	P	D	T	L	Q	E	C	G	F	N	S	F	K	T	R	V	M	-	-	I	74
	V	A	A	D	S	S	S	I	S	G	S	N	F	K	N	N	K	K	T	R	F	I	
EL	ATT	CAC	GGA	TGG	ACG	ATG	AGC	GGT	ATC	TTT	GAA	AAC	TGG	CTG	CAC	AAA	CTC	GTG	TCA	GCC	CTG	CAC	ACA
LPL	I	H	G	G	T	M	S	G	G	F	E	N	W	L	H	K	L	V	S	A	L	H	T
HL	I	H	G	G	T	V	T	G	I	Y	E	S	W	V	P	K	L	V	A	A	L	Y	K
PPL	I	H	G	G	T	D	K	G	V	L	E	N	L	I	W	Q	M	V	A	A	L	K	S
	I	H	G	G	T	K	G	E	E	L	N	W	L	A	N	V	C	K	-	-	N	L	F
EL	AGA	GAG	AAA	GAC	GCC	-	-	-	AAT	GTA	GTT	GTG	GTT	GAC	TGG	CTC	CCC	CTG	GCC	CAC	CAG	CTT	TAC
LPL	-	R	E	D	A	-	-	-	N	V	V	V	D	D	W	L	P	L	A	H	Q	L	Y
HL	-	R	E	D	S	-	-	-	N	V	V	V	D	W	W	I	S	R	A	Q	E	H	Y
PPL	Q	P	A	Q	V	-	-	-	N	V	L	C	W	W	W	K	T	L	A	H	D	H	Y
	K	-	-	-	S	-	-	-	N	C	I	-	W	W	W	G	G	A	R	T	G	Y	113
																						94	
																						108	
																						115	

FIG. 1A

EL	ACG	GAT	GCG	GTC	AAT	ACC	AGG	GTG	GTG	GGA	CAC	AGC	ATT	GCC	AGG	ATG	CTC	GAC	TGG	CTG	CAG	GAG
LPL																						
HL																						
PL																						
EL	AAG	GAC	GAT	TTT	TCT	CTC	GGG	AAT	GTC	CAC	TTG	ATC	GGC	TAC	AGC	CTC	GGA	GCG	GTG	GCC	GGG	
LPL																						
HL																						
PL																						
EL	TAT	GCA	GGC	AAC	TTC	GTG	AAA	GGA	ACG													
LPL																						
HL																						
PL																						
EL	ATG	TTT	GAA	GGG	GCC	GAC	ATC	CAC	AAG	AGG	CTC	TCT	CCG	GAC	GAT	GCA	GAT	TTT	GTG	GAT	CTC	
LPL																						
HL																						
PL																						
EL	CAC	ACC	TAC	ACG	CGT	TCC	TTC															
LPL																						
HL																						
PL																						
EL	ATC	TAC	CCC	AAT	GGG	GAT	GGT	GAC	TTC	CAG	CCA	GGC	TGT	GGA	CTC	AAC	GAT	GTC	TTG	GGA	TCA	ATT
LPL																						
HL																						
PL																						

FIG. 1B

	TAT	GGA	ACA	ATC	ACA	GAG	GTG	GTA	AAA	TGT	GAG	CAT	GAG	CGA	GCC	GTC	CAC	CTC	TTT					
EL	Y	G	T	I	T	E	V	V	K	-	-	-	C	E	S	H	E	L	F					
LPL	E	R	G	L	G	D	D	D	Q	-	-	-	C	S	K	H	E	L	F					
HL	Q	H	G	F	N	A	I	I	Q	-	-	-	C	S	I	H	E	L	F					
PL	I	G	G	I	W	E	G	T	R	A	A	N	C	S	Y	K	Y	Y	F					
	GTT	GAC	TCT	CTG	GTG	AAT	CAG	GAC	AAG	CCG	AGT	TTT	GCC	TTC	CAG	TGC	ACT	GAC	TCC	AAT	CGC			
EL	V	D	S	L	L	V	Q	D	K	P	S	F	A	F	Q	C	T	D	S	N	R			
LPL	I	D	S	L	L	N	E	E	N	P	S	K	A	Y	R	C	S	K	E	A	284			
HL	I	D	S	L	L	H	A	G	T	G	S	M	A	Y	P	C	G	M	N	S	269			
PL	T	D	S	L	L	N	P	D	G	F	-	-	A	G	F	C	A	Y	N	V	285			
																				291				
	TTC	AAA	AAG	GGG	ATC	ATC	TGT	CTG	AGC	TGC	CGC	AAG	AAC	CGT	TGT	AAT	AGC	ATT	GGC	TAC	AAT	GCC	AAG	AAA
EL	F	K	K	K	G	G	I	L	S	C	R	K	N	N	R	C	S	I	G	Y	Y	N	K	K
LPL	F	E	K	K	L	L	C	L	S	C	R	K	N	R	C	N	N	L	G	Y	E	I	N	Q
HL	F	S	Q	Q	L	L	C	L	R	C	R	K	G	R	C	N	T	L	G	Y	H	V	R	D
PL	F	T	A	N	K	K	C	F	P	C	K	P	S	G	C	P	Q	M	Y			A		R
	ATG	AGG	AAC	AAG	AGG	AAC	AGC	AGC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EL	M	R	R	R	R	R	S	S	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
LPL	V	R	R	R	R	R	S	S	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
HL	E	P	R	R	R	R	S	S	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
PL	Y	P	G	K	T	N	D	D	Q	Q	Q	Q	L	F	Y	D	G	S	S	A	S	S	S	S
	AGA	GTT	TAC	CAT	TAT	CAG	ATG	AAA	ATC	ATC	CAT	GTC	TTT	AGT	TAC	CTA	AAA	ACC	CGG	GCA	GGC	ATG	CCT	TTC
EL	R	V	Y	H	Y	Y	M	K	K	K	I	H	F	S	Y	L	K	N	R	A	G	M	P	F
LPL	K	V	F	H	Y	Y	V	K	K	K	I	H	F	S	Y	L	K	N	R	A	G	M	P	F
HL	K	V	F	H	Y	Y	V	K	K	K	I	H	F	S	Y	L	K	N	R	A	G	M	P	F
PL	A	R	W	H	Y	Y	V	S	V	V	Q	T	S	G	N	Y	D	V	G	A	S	S	N	F
	TTT	TAC	GTC	ACC	CTT	TAT	GGC	ACT	AAT	GCA	GAT	TCC	CAG	ACT	CTG	CCA	CTG	GAA	ATA	GTG	GAG	CGG		
EL	F	Y	V	T	L	L	G	T	N	A	D	S	Q	E	L	P	L	E	I	V	E	R	371	
LPL	F	E	I	S	L	L	G	T	N	A	D	S	Q	E	L	P	L	E	I	V	E	-	355	
HL	F	T	M	S	L	L	G	T	N	A	D	S	Q	E	L	P	L	E	I	V	E	G	371	
PL	S	L	F	G	N	L	G	T	N	A	D	S	Q	E	L	P	L	E	I	V	E	D	380	

FIG. 1C

EL	ATC	GAG	CAG	AAT	GCC	ACC	AAC	ACC	TTC	CTG	GTC	TAC	ACC	GAG	GAG	GAC	CTC	TTG	AAG	ATC
LPL		E	Q	N	A	T	N	T	F	L	V	Y	T	E	E	D	L	L	K	I
HL		S	T	N	K	S	Y	S	F	L	I	Y	L	V	V	E	L	M	L	L
PL		S	H	N	K	S	F	D	-	-	-	-	S	V	V	D	L	M	M	V
EL	CAG	CTC	ACC	TGG	GAG	GGG	GCC	TCT	CAG	TCT	TGG	TAC	AAC	CTG	TGG	AAG	GAG	TAC	CTG	
LPL		L	T	W	E	G	A	S	Q	S	W	Y	N	L	W	K	E	S	Y	L
HL		L	K	W	K	S	D	S	Y	F	S	W	S	D	W	W	S	G	F	A
PL		F	K	W	E	N	S	A	V	W	A	N	V	W	D	T	V	I	I	P
		F	I	W	Y	N	N	V	I	N	-	-	-	-	-	-	-	-	-	409
EL	TCT	CAA	CCC	CGC	AAC	CCC	GGA	CGG	GAG	CTG	AAT	ATC	AGG	CGC	ATC	CGG	GTG	AAG	ACC	CAG
LPL		Q	P	R	N	P	G	R	E	L	N	I	R	R	I	R	V	E	T	Q
HL		I	K	-	-	-	-	-	-	-	-	-	-	-	I	R	V	E	T	Q
PL		W	T	G	P	R	H	S	G	L	V	L	K	T	I	R	V	E	T	K
		-	T	L	P	R	-	-	-	V	G	A	S	K	I	I	V	E	T	K
EL	CGG	AAA	CTG	ACA	TTT	TGT	ACA	GAA	GAC	CCT	GAG	AAC	ACC	AGC	ATA	TCC	CCA	GGC	CTC	TGG
LPL		K	L	V	T	C	T	E	D	P	E	N	T	S	I	S	P	G	L	W
HL		K	V	M	I	C	S	R	E	K	V	S	H	L	Q	K	G	A	V	434
PL		Q	R	F	N	C	S	E	N	T	D	D	L	L	L	R	P	T	K	I
		Q	-	-	-	C	S	P	E	T	-	-	-	-	V	R	E	L	T	445
EL	TTT	CGC	AAG	TGT	CGG	GAT	GGC	TGG	AGG	ATG	AAA	AAC	ACC	AGT	CCC	ACT	GTG	GAG	CTT	CCC
LPL		R	K	C	R	D	G	W	R	M	K	N	E	S	P	T	V	E	L	P
HL		F	V	C	H	D	K	S	L	N	K	K	T	G	-	-	-	-	-	482
PL		F	V	C	E	I	K	S	K	T	S	K	R	I	-	-	-	-	-	448
		L	P	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	477
																				449

FIG. 1D

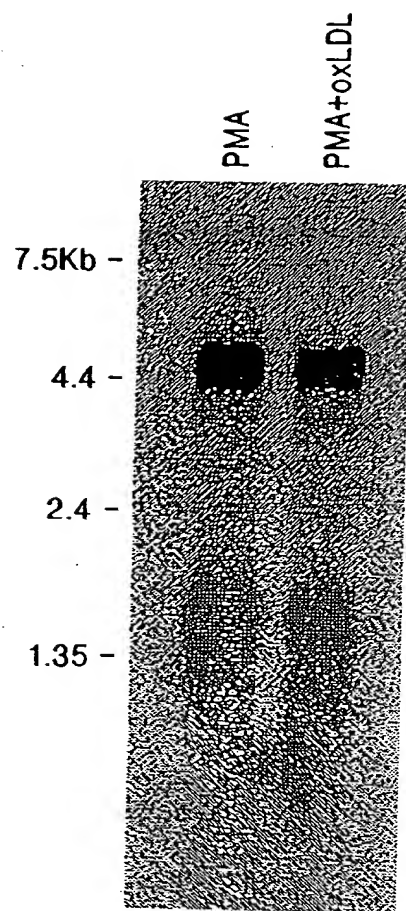


FIG. 2

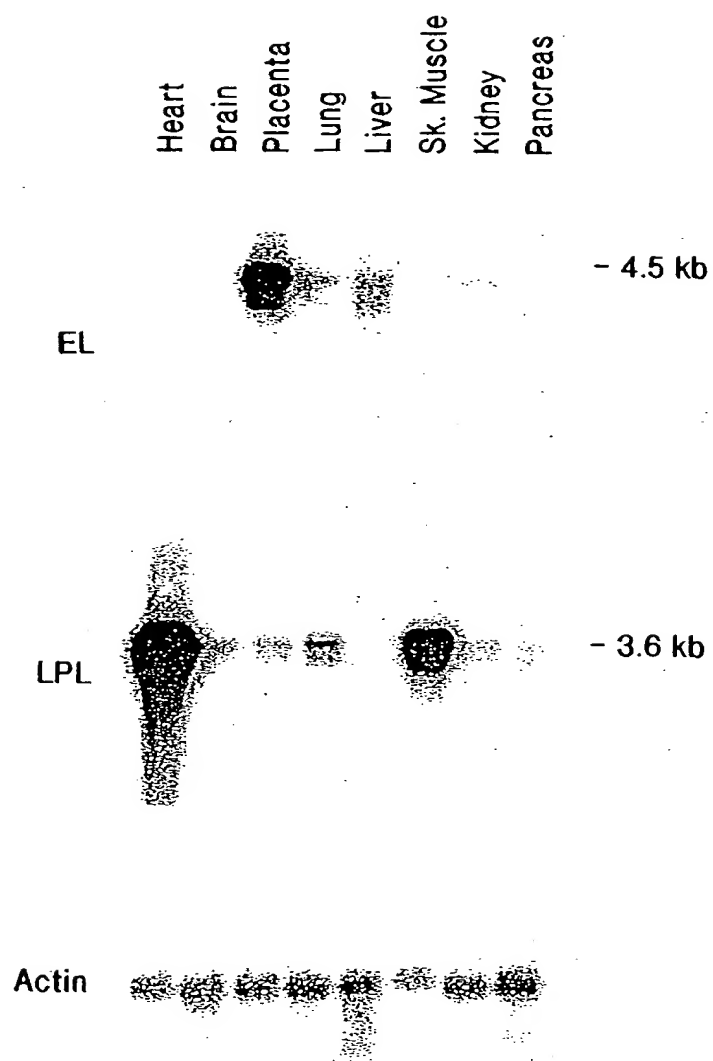


FIG. 3

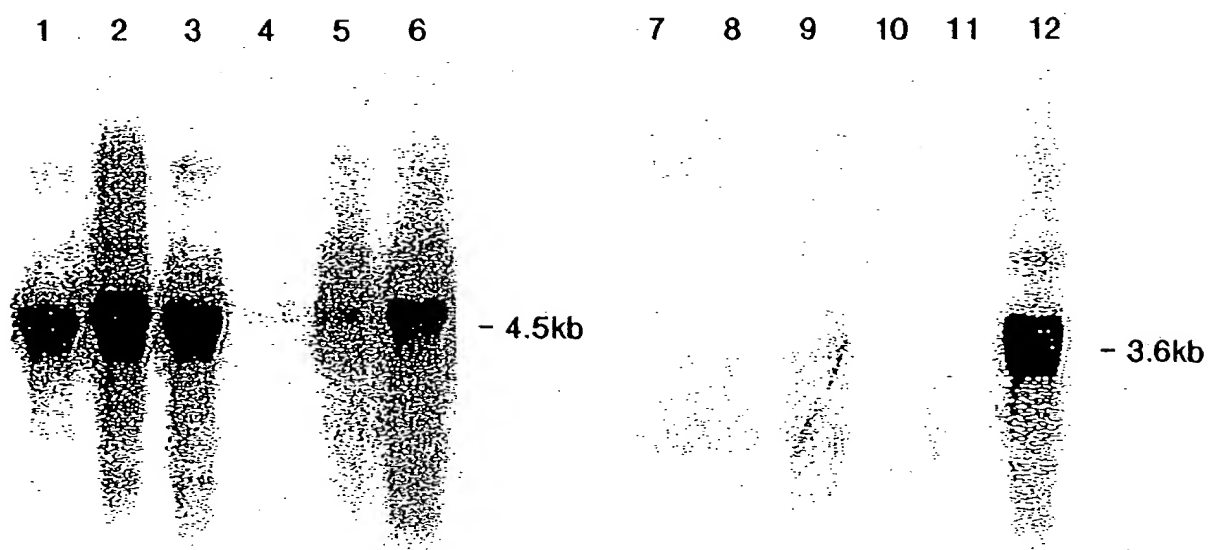


FIG. 4

GPEGRLFDKLHKPKATC

MSNSVPLLCEWSLCCFAAGSPVPFGPEGRLFDKLHKPKATQTEVKPSVRFNLRTSKDPEHEGCYL
SVGHSQPLEDCSFNMTAKTFFIIHGWTMSGIFENWLHKLVSALHTREKDANVVVVDWLPLAHQLY
TDAVNNTRVVGHSIARMLDWLQEKDDFSLGNVHLIGYSLGAHVAGYAGNFVKGTVGRITGLDPA
GPMFEGADIAKRLSPDDADFVDVLHTYTRSFGLSIGIQMPVGHIDIYPNGGDFQPGCGLNDVLGSIA
YGTTEVVKCEHERAVHLFVDSL VNQDKPSFAFQCTDSNRFFKKGICLSCKRKNRCNSIGYNAKKMR
NKRNSKMYLKTTRAGMPFRVYHYQMKIHVFSYKMGIEIPTFYVTL YGTNADSQTLPLEIVERIEQ
NATNTFLVYTEEDLGDLLKIQLTWEGASQSWYNLWKEFRSYLSQPRNPGRELNIRRI RVKSGETQR
KLTFCTEDPENTSI SPGRELWFRKCRDGWRMKNETSPTVELP

FIG. 5

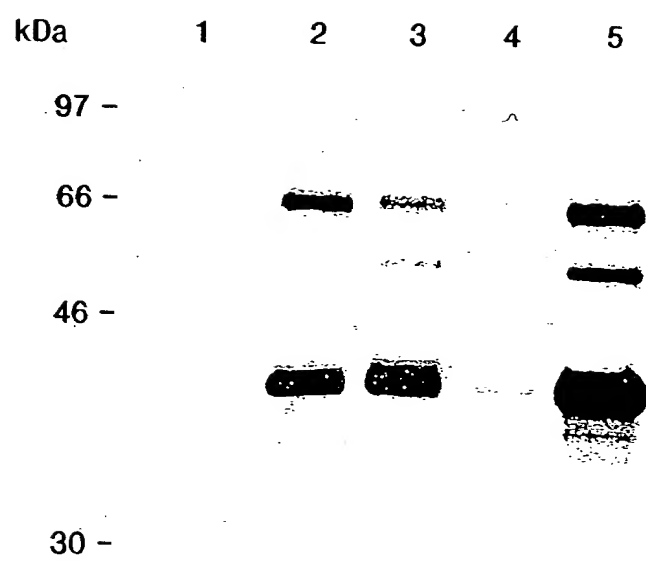


FIG. 6

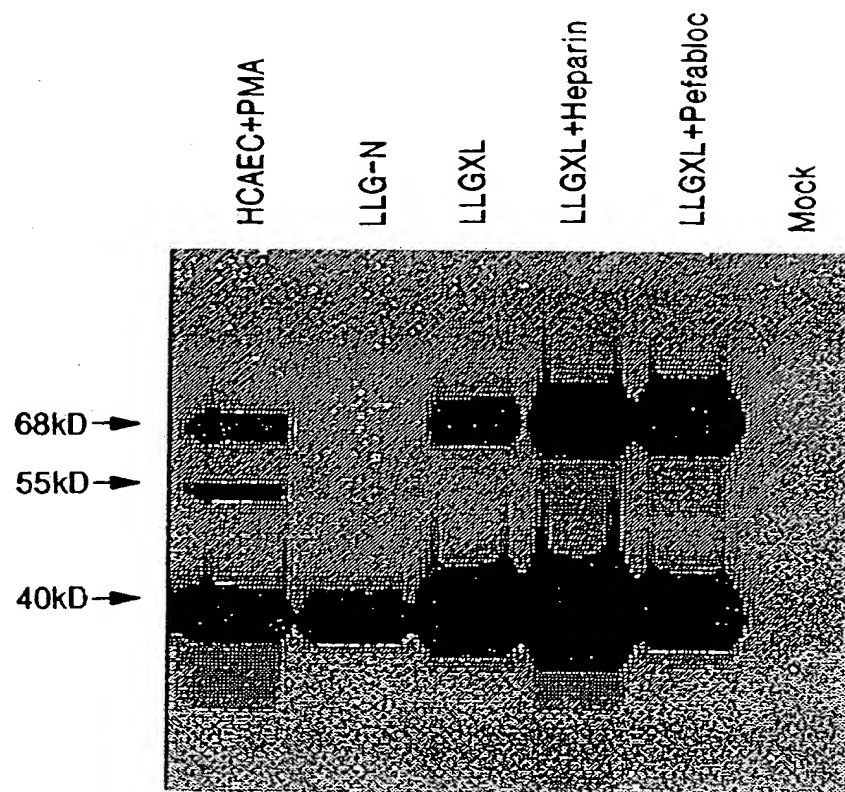


FIG. 7

		10	20	30	40	
1	T	T	G	G	G	A
1	C	T	G	G	G	A
					</	

LLG7742A
RLLG.SEQ

LLG7742A
RLLG.SEQ

LLG7742A
RLLG.SEQ

LLG7742A
RLLG.SEQ

LLG7742A
RLLG.SEQ

LLG7742A
RLLG.SEQ

FIG. 8

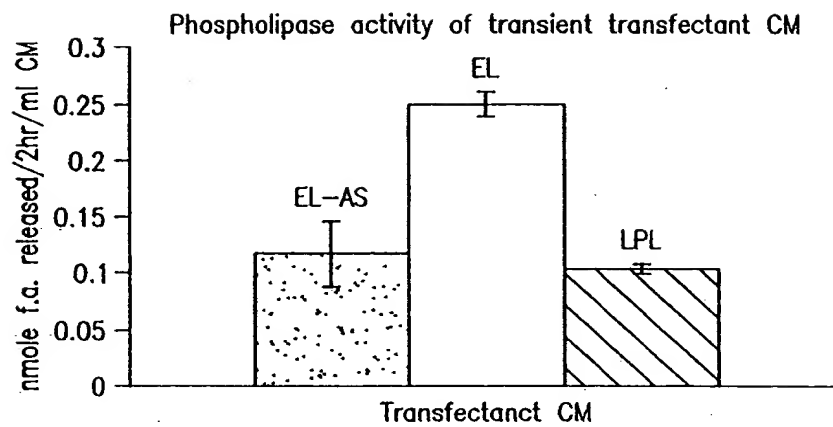


FIG. 9

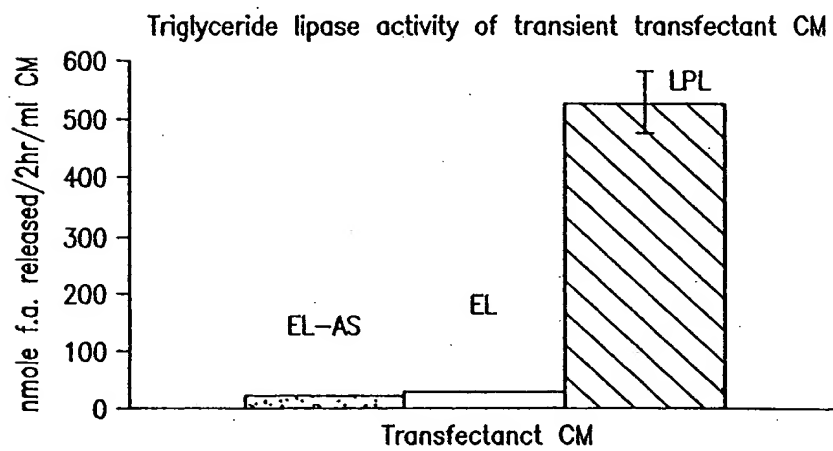
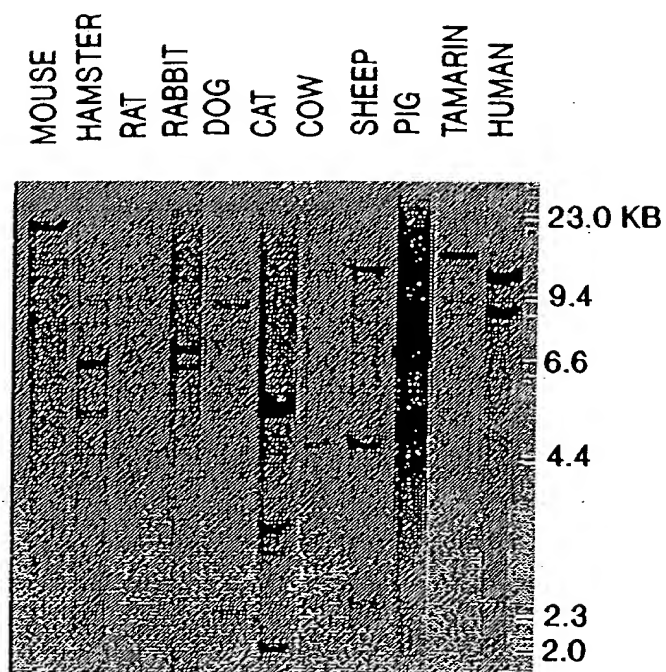


FIG. 10

LLG



LPL

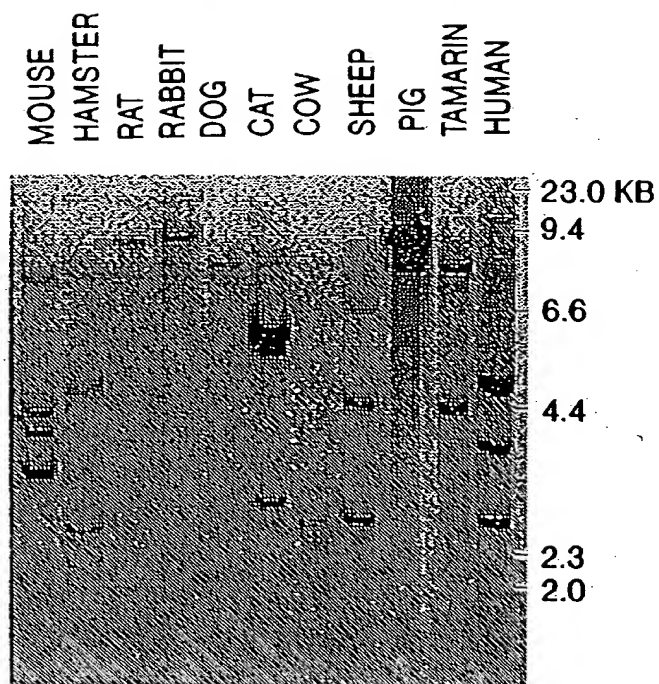


FIG. 11

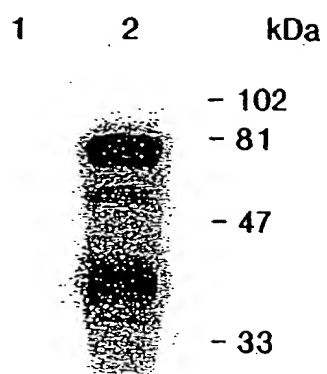


FIG. 12

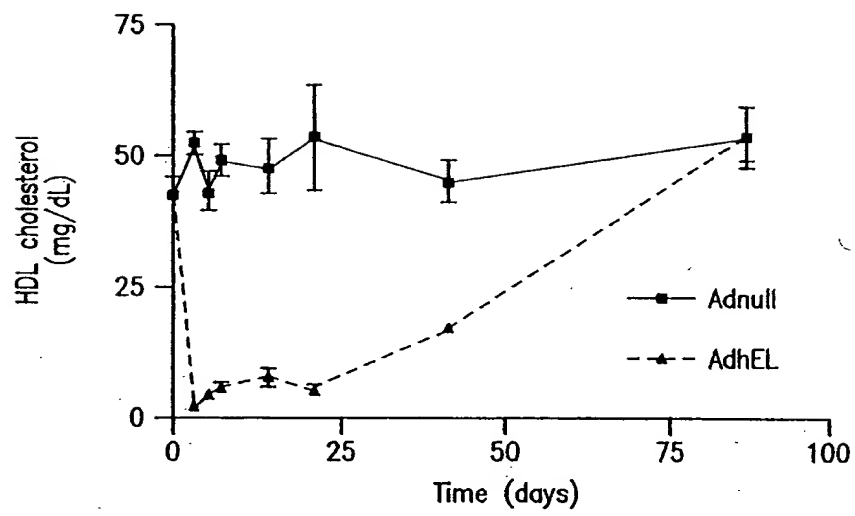


FIG. 13

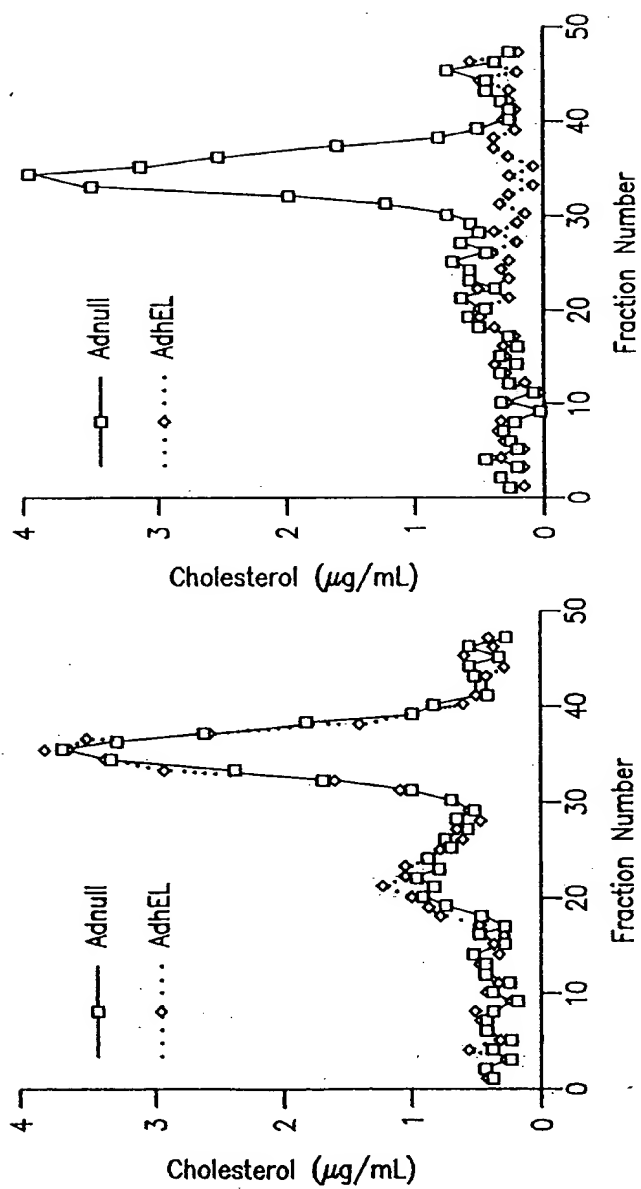


FIG. 14

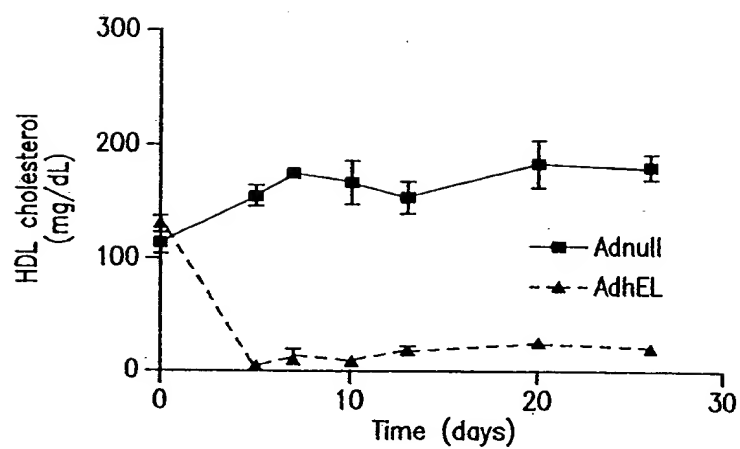


FIG. 15

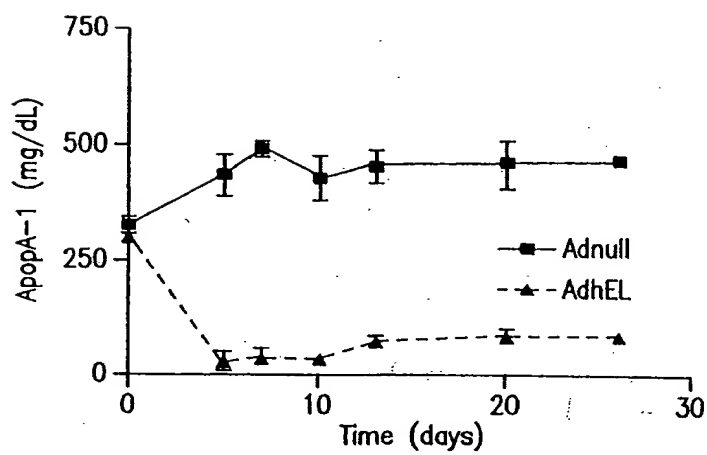


FIG. 16

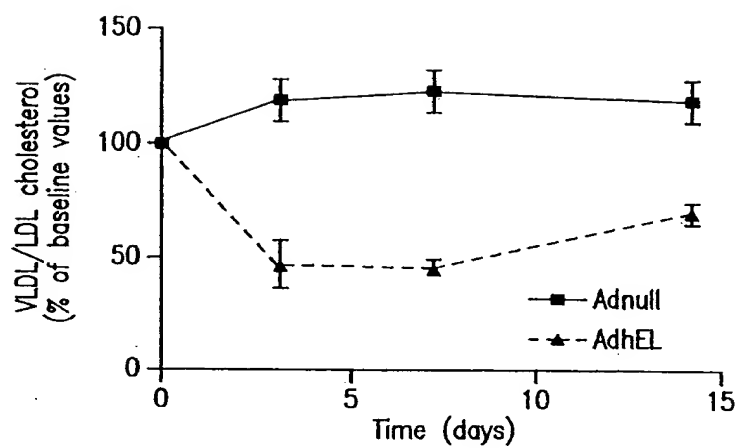


FIG. 17

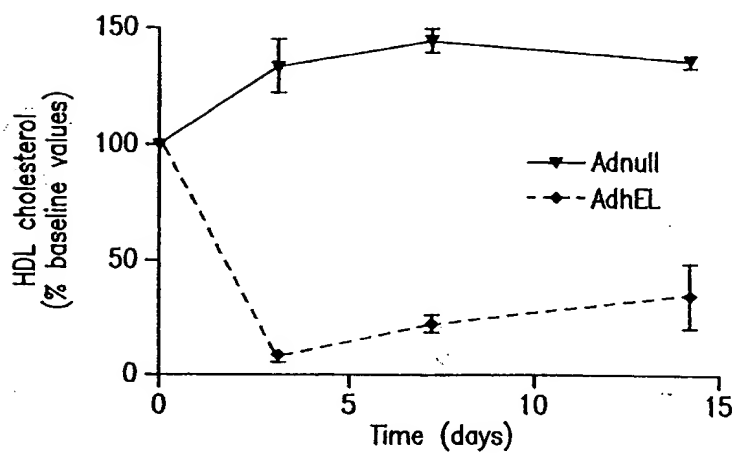


FIG. 18

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